

# INTERNATIONAL SEARCH REPORT

International Application No.  
PCT/02/14469

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 B25G1/01

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 B25G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 530 989 A (REMMERT) 2 July 1996 (1996-07-02) column 2, line 8-13 column 2, line 22-26 column 3, line 26-34 column 4, line 55-62; figures	1-7
Y		8
A		13-19
X	US 5 588 343 A (RUST) 31 December 1996 (1996-12-31) column 3, line 19-34; figures	1-4, 9-12
A		5, 13-16, 21, 24
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

27 March 2003

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04/04/2003

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Int. Application No

PCT/02/14469

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 781 963 A (MARU) 21 July 1998 (1998-07-21)  column 3, line 8-30 column 3, line 63 -column 4, line 2; figures -----	1,2,5,7, 13,14, 17,19, 20,22
X	WO 00 09296 A (THE STANLEY WORKS) 24 February 2000 (2000-02-24) page 5, line 6-15 page 6, line 3-24 page 7, line 14-18; figures -----	1
A	-----	6,9-12, 18
X	US 4 334 563 A (EPEL) 15 June 1982 (1982-06-15)  abstract column 2, line 56-63 column 3, line 11-18; figures -----	1-5, 13-16, 19,21,24
Y	-----	8
X	US 6 311 369 B1 (RYU) 6 November 2001 (2001-11-06)  column 4, line 65 -column 5, line 2 column 5, line 17,18 column 5, line 42-53; figures -----	1-4, 13-16, 21,24
A	US 5 421 931 A (CARMEN) 6 June 1995 (1995-06-06) abstract; figures -----	9,21,22

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Information on patent family members

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